

GASTRIC STIMULATOR APPARATUS  
AND METHOD FOR INSTALLING

ABSTRACT OF THE DISCLOSURE

5           Apparatus for stimulating neuromuscular tissue of the  
gastrointestinal tract and methods for installing the apparatus to the  
neuromuscular tissue. The pulse generator is provided with a switching  
matrix, and may stimulate the tissue in a time-varying manner by selecting  
10   pairs of electrodes and altering the polarities thereof while stimulating the  
tissue. In addition, a real-time clock allowing a trigger for on and off  
modes, the time clock could also allow for a trigger to change parameters.  
Such parameters that could be changed are pulse width, amplitude, duty  
cycle (amount of time of pulse and time between pulses, or series of pulses),  
frequency, polarity, choice of unipolar versus bi-polar, and electrode on-off.  
15   The electrical stimulation utilizes a plurality of electrodes connected to at  
least one organ in the gastrointestinal tract of a patient along a peristaltic  
flow path with each of the electrodes being connected at a different location  
along the peristaltic flow path. Electrical pulses are provided to the organ  
from a first set of the plurality of electrodes and second electrical pulses are  
20   provided to the organ from a second set of electrodes. The electrical pulses  
provided are in an independent non-phased relationship for maintaining  
therapeutic regulation of peristaltic flow through the at least one organ in  
the gastrointestinal tract while defeating the body's natural tendency for  
adaption.